IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

of	Inv	rentor(s)	
or			
·	Title o	of invention	
		OR	
(n re application of:	Titus, et al		
Application No.:	10/786,247 G	Froup No.:	2811
Filed:	02/25/04 E	xaminer:	
For: An Improved M	IOS Varactor for LC VCOs		
Commissioner for I P.O. Box 1450 Alexandria, VA 223	313-1450	ATION DISC	CLOSURE STATEMENT
P.O. Box 1450 Alexandria, VA 22 TRA BEFORE	313-1450 ANSMITTAL OF INFORMA WITHIN THREE M MAILING OF FIRST OFF	IONTHS OF	F FILING OR N (37 C.F.R. SECTION 1.97(b))
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P.O. Box 1450 Alexandria, VA 22: TRA BEFORE C: I hereby certify that, on the control of the c	ANSMITTAL OF INFORMA WITHIN THREE M MAILING OF FIRST OFF ERTIFICATE OF MAILING/TRA the date shown below, this correspon	IONTHS OF ICE ACTION	F FILING OR N (37 C.F.R. SECTION 1.97(b)) (37 C.F.R. SECTION 1.8(a)) FACSIMILE
P.O. Box 1450 Alexandria, VA 22: TRA BEFORE C: I hereby certify that, on the least of the lea	ANSMITTAL OF INFORMA WITHIN THREE M MAILING OF FIRST OFF ERTIFICATE OF MAILING/TRA the date shown below, this correspond MAILING United States Postal Service with t class mail in an envelope ner for Patents, P.O. Box 1450,	IONTHS OF ICE ACTION	F FILING OR N (37 C.F.R. SECTION 1.97(b)) (37 C.F.R. SECTION 1.8(a)) FACSIMILE smitted by facsimile to the Patent and Trademark
P.O. Box 1450 Alexandria, VA 22: TRA BEFORE C: I hereby certify that, on the control of the c	ANSMITTAL OF INFORMA WITHIN THREE M MAILING OF FIRST OFF ERTIFICATE OF MAILING/TRA the date shown below, this correspond MAILING United States Postal Service with t class mail in an envelope ner for Patents, P.O. Box 1450,	IONTHS OF ICE ACTION	F FILING OR N (37 C.F.R. SECTION 1.97(b)) (37 C.F.R. SECTION 1.8(a)) FACSIMILE smitted by facsimile to the Patent and Trademark

- NOTE:" An information disclosure statement shall be considered by the Office if filed by the applicant: (1) within three months of the filing date of a national application; (2) within three months of the date of entry of the national stage as set forth in section 1.491 in an international application; or (3) before the mailing date of a first Office action on the merits, whichever event occurs last." 37 C.F.R. section 1.97(b).
- NOTE: The "filing date of a national application" under 37 C.F.R. section 1.97(b) has two possible meanings. Where the filing is a direct one to the United States Patent & Trademark office, the filing is defined in 37 C.F.R. section 1.53(b) as "the date on which: (1) A specification containing a description pursuant to section 1.71 and at least one claim pursuant to section 1.75; and (2) any drawing required by section 1.81(a), are filed in the Patent and Trademark Office in the name of the actual inventor or inventors as required by section 1.41." 37 C.F.R. section 1.97(b)(1). On the other hand, an international application that enters the national stage occurs when the applicant has filed the documents and fees required by 35 U.S.C. section 371(c) within the periods set forth in section 1.494 or section 1.495. 35 U.S.C. section 371(c) requires the filing of the following: (1) the basic national fee; (2) a copy of the international application, unless already sent by the International Bureau, and optionally an English translation if filed in another language; and, also optionally (3) amendments under PCT Article 19, with a translation into English if made in another language; (4) an oath or declaration; and (5) a translation into English of any annexes to the international preliminary examination report, if such annexes were made in another language. The optional items must be submitted later, with surcharges. 37 C.F.R. section 1.97(b)(2).

IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING INFORMATION DISCLOSURE STATEMENT

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 C.F.R. section 1.97(b).

- NOTE: "No certification or fee is due when the filing is made within the above time period. It is advisable to ensure that no Office action has been mailed if the disclosure statement is delayed until after three months from filing."
- NOTE: "An information disclosure statement will be considered to have been filed on the day it was received in the Office, or on an earlier date of a mailing if accompanied by a properly executed certificate of mailing under 37 C.F.R. 1.8, or Express Mail certificate under 37 C.F.R. 1.10. An office action is mailed on the date indicated in the Office action." Notice of April 20, 1992 (1138 O.G. 37-41, 39).
- NOTE: "The term hational application' includes continuing applications (continuations, divisions, continuations-in-part) so three-months will be measured from the actual filing date of an application as opposed [sic] to the effective date of a continuing application." Notice of April 20, 1992 (1138 O.G. 37-41, 39).
- NOTE: "An action on the merits means an action which treats the patentability of the claims in an application, as opposed to only formal or procedural requirements. An action on the merits would, for example, contain a rejection or indication of allowability of a claim or claims rather than just a restriction requirement (37 C.F.R. section 1.142) or just a requirement for additional fees to have a claim considered (37 C.F.R. section 1.16(d)). Thus, if an application was filed on Jan. 1 and the first Office action on the merits was not mailed until six months later on July 1, the examiner would be required to consider any proper information disclosure statement filed prior to July 1." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

WARNING:"A petition for suspension of action to allow applicant time to submit an information disclosure statement will be denied as failing to present good and sufficient reasons, since 37 C.F.R. section 1.97 provides adequate recourse for the timely submission of prior art for consideration by the examiner." Notice of July 6, 1992 (1141 O.G. 63).

SIGNATURE OF PRACTITIONER

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(type or print name of practitioner)

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CTION 2. FORMS PTO/SB/08A and 08B (formerly Form PTO-1449)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Titus, et al

Attorney Docket:

2550/196

Serial No:

10/786,247

Art Group Unit:

Date Filed:

02/25/04

Examiner Name:

Invention:

An Improved MOS Varactor for LC VCOs

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

U.S. PATENT DOCUMENTS					
Examiner Initials	Reference Number	Document Number	Issue Date	Inventor	Class/Subclass
	AA	US6,407,412 B1	06/18/02	Iniewski, et al	257/107

OTHER DOCUMENTS			
Examiner	Reference	Author	Title of Article, Title of Journal, Volume Number,
Initials	Initials Number		Page Numbers, Date
	AB	Andreani, P., et al	"On the Use of MOS Varactors in RF VCO's",
			IEEE Journal of Solid-State Circuits, Vol. 35,
			No. 6, June 2000, pp. 905910
	AC	Bunch, R. L, et al	"Large-Signal Analysis of MOS Varactors in
			CMOS-G LC VCOs", IEEE Journal of Solid-
			State Circuits, Vol. 38, No. 8, August 2003, pp.
			1325-1332
	AD	Maget, J., et al	"Influence of Novel MOS Varactors on the
			Performance of a Fully Integrated UMTS VCO
		Ì	in Standard 0.25-µm CMOS Technology", IEEE
			Journal of Solid-State Circuits, Vol. 37, No. 7,
			July 2002, pp. 953-958
	AE	Турро, Ј.	"A Back Gate Tunned PFET VCO", Analog
			Integrated Circuits and Signal Processing", 30,
			265-269, 2002

Examiner Signature:	
Date Considered:	
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation <i>if not</i> in conformance and not considered. Include copy of this form with next communication to applicant.	

Section 6. Copies of Listed Information Items Accompanying This Statement

NOTE: 37 C.F.R. section 1.98(a)(2) requires that any information disclosure statement filed under section 1.97 shall include: "A legible copy of: (1) Each U.S. and foreign patent; (ii) Each publication or that portion which caused it to be listed; and (iii) All other information or that portion which caused it to be listed, except that no copy of a U.S. patent application need be included..."

NOTE: The wording in section 1.98(a)(2)(iii) makes it clear that the requirement to submit a copy of each item of information listed in an information disclosure statement does not apply to the citation of a U.S. patent application. Notice of January 9, 1992, 1135 O.G. 13-25, at 14.

Legible copies of all items listed in Forms PTO/SB/08A and 08B (substitute for Form PTO-1449) accompany this information statement.

(complete the following, if applicable)

[x]Exception(s) to above:

[]Items in prior application, from which an earlier filing date is claimed for this application, as identified in Section 4.

[]Cumulative patents or publications identified in Section 5.

U.S. patent citations are not included pursuant to the United State Patent and Trademarks Office's September 21, 2004 waiver of the copy requirement in 37 CFR 1.98 for cited pending U.S. patent citations when the patent citations are available in the USPTO's IFW system.

Section 10. Identification of Person(s) Making This Information Disclosure Statement

The person making this certification is	
(check eac	ch applicable item)
(a) []the inventor(s) who signs below	
	SIGNATURE OF INVENTOR
	(type name of inventor who is signing)
(b) []an individual associated with the fili 1.56(c))	ng and prosecution of this application (37 C.F.R. section
	SIGNATURE OF INVENTOR
	(type name of inventor who is signing)
(c) [x] the practitioner who signs below on	the basis of the information:
(check eac	ch applicable item)
[] supplied by the inventor(s)).
	ual associated with the filing and prosecution of this C.F.R. section 1.56(c)).
[x] in the practitioner's file.	
	FOR THE OF PRACTITIONER
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	(type or print name of practitioner)
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